

Turbine and Turbine Generator Set Units Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333611, Turbine and turbine generator set units manufacturing	2002...	93	112	19 804	1 025 123	11 613	23 420	571 162	9 300 490	5 640 239	15 017 885	'172 405
	2001...	N	N	19 514	1 116 625	11 841	23 907	573 393	6 329 642	6 325 945	12 449 443	358 849
	2000...	N	N	17 646	941 465	9 764	19 741	466 422	3 499 065	4 589 834	7 990 353	322 223
	1999...	N	N	19 236	912 358	10 381	21 061	451 120	3 435 840	3 187 974	6 529 890	309 024
	1998...	N	N	18 062	837 210	10 049	21 168	436 874	3 234 471	3 152 864	6 338 165	305 890
	1997...	68	86	19 529	910 316	11 099	23 488	476 082	2 841 914	2 865 746	5 854 113	177 434

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333611, Turbine and turbine generator set units manufacturing												
United States	—	112	74	19 804	1 025 123	11 613	23 420	571 162	9 300 490	5 640 239	15 017 885	172 405
Florida	—	6	2	190	7 900	55	119	1 999	12 322	17 515	30 345	329
Massachusetts	4	6	5	455	24 029	307	582	15 195	53 391	27 668	80 698	2 304
New York	—	10	7	3 617	215 803	2 343	4 812	143 391	1 778 687	1 473 293	3 247 721	40 801
Texas	4	11	7	1 448	70 486	988	1 890	44 798	211 788	136 222	337 437	8 106

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333611, Turbine and turbine generator set units manufacturing	
Companies ¹	number.. 93
All establishments ²	number.. 112
Establishments with 1 to 19 employees	number.. 38
Establishments with 20 to 99 employees	number.. 35
Establishments with 100 employees or more	number.. 39
All employees ³	number.. 19 804
Total compensation	\$1,000.. 1 333 355
Annual payroll	\$1,000.. 1 025 123
Total fringe benefits	\$1,000.. 308 232
Production workers, average for year	number.. 11 613
Production workers on March 12	number.. 12 123
Production workers on May 12	number.. 12 038
Production workers on August 12	number.. 11 689
Production workers on November 12	number.. 10 583
Production worker hours	1,000.. 23 420
Production worker wages	\$1,000.. 571 162
Total cost of materials	\$1,000.. 5 640 239
Materials, parts, containers, packaging, etc., used	\$1,000.. 3 433 332
Resales	\$1,000.. D
Purchased fuels	\$1,000.. 10 717
Purchased electricity	\$1,000.. 30 826
Contract work	\$1,000.. D
Quantity of electricity purchased for heat and power	1,000 kWh.. 515 002
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 15 017 885
Primary products value of shipments	\$1,000.. 12 289 115
Secondary products value of shipments	\$1,000.. 158 626
Total miscellaneous receipts	\$1,000.. 2 570 144
Value of resales	\$1,000.. D
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. 44 148
Primary products specialization ratio	percent.. 99
Value of primary products shipments made in all industries	\$1,000.. 13 775 117
Value of primary products shipments made in this industry	\$1,000.. 12 289 115
Value of primary products shipments made in other industries	\$1,000.. 1 486 002
Coverage ratio	percent.. 89
Value added	\$1,000.. 9 300 490
Total inventories, beginning of year	\$1,000.. 1 928 527
Finished goods inventories	\$1,000.. 139 679
Work-in-process inventories	\$1,000.. 1 281 902
Materials and supplies inventories	\$1,000.. 506 946
Total inventories, end of year	\$1,000.. 1 614 717
Finished goods inventories	\$1,000.. 89 323
Work-in-process inventories	\$1,000.. 1 255 102
Materials and supplies inventories	\$1,000.. 270 292
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '3 670 295
Total capital expenditures (new and used)	\$1,000.. '172 405
Buildings and other structures (new and used)	\$1,000.. '24 325
Machinery and equipment (new and used)	\$1,000.. '148 080
Automobiles, trucks, etc., for highway use	\$1,000.. '4 171
Computers and peripheral data processing equipment	\$1,000.. '10 348
All other expenditures for machinery and equipment	\$1,000.. '133 561
Total retirements	\$1,000.. '94 283
Gross value of depreciable assets at end of year	\$1,000.. '3 748 417
Depreciation charges during year	\$1,000.. '228 194
Total rental payments	\$1,000.. 60 678
Buildings and other structures	\$1,000.. 31 782
Machinery and equipment	\$1,000.. 28 896
Total other expenses ⁴	\$1,000.. 327 089
Response coverage ratio ⁵	percent.. 80
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 46 171
Communications services ⁴	\$1,000.. 6 683
Legal services ⁴	\$1,000.. 35 525
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 395
Advertising and promotional services ⁴	\$1,000.. 2 252
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 20 380
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 3 999
Management consulting and administrative services ⁴	\$1,000.. 10 560
Taxes and license fees ⁴	\$1,000.. 7 070
All other expenses ⁴	\$1,000.. 192 053

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333611, Turbine and turbine generator set units manufacturing											
All establishments	—	112	19 804	1 025 123	11 613	23 420	571 162	9 300 490	5 640 239	15 017 885	'172 405
Establishments with—											
1 to 4 employees	1	14	33	1 280	21	30	681	4 155	4 142	8 304	'93
5 to 9 employees	4	11	74	3 742	50	104	2 237	9 654	7 330	17 119	'1 017
10 to 19 employees	1	13	179	8 283	102	197	3 902	16 278	15 998	33 695	'2 641
20 to 49 employees	2	22	667	28 426	452	904	16 360	75 855	35 768	111 401	'6 930
50 to 99 employees	—	13	911	44 165	635	1 304	30 199	116 798	83 317	205 795	'6 875
100 to 249 employees	1	22	3 024	146 113	1 999	3 979	79 201	379 760	302 190	687 735	'19 743
250 to 499 employees	1	6	1 832	87 890	1 250	2 650	55 673	256 053	198 843	466 482	9 137
500 to 999 employees	1	6	h	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	5	i	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	1	c	D	D	D	D	D	D	D	D

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333611	Turbine and turbine generator set units manufacturing	112	19 804	1 025 123	11 613	23 420	571 162	9 300 490	5 640 239	15 017 885	'172 405
3336110	Turbines, turbine generators, and turbine generator sets (including parts)	112	19 804	1 025 123	11 613	23 420	571 162	9 300 490	5 640 239	15 017 885	'172 405

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333611	Turbine and turbine generator set units manufacturing	2002.. N	X	X	13 775 117
		1997.. N	X	X	6 594 972
33361101	Turbine generator sets	2002.. N	X	X	D
		1997.. N	X	X	2 677 815
3336110101	Turbine generator sets	2002.. 18	X	X	D
		1997.. 14	X	X	2 677 815
33361102	Steam turbines and other vapor turbines	2002.. N	X	X	880 527
		1997.. N	X	X	219 650
3336110211	Steam turbines and other vapor turbines	2002.. 11	X	X	880 527
		1997.. 8	X	X	219 650
33361107	Accessories for turbines, turbine generators, and turbine generator sets	2002.. N	X	X	1 817 217
		1997.. N	X	X	1 368 051
3336110741	Parts and accessories for hydraulic turbines (sold separately)	2002.. 5	X	X	D
		1997.. 1	X	X	D
3336110746	Parts and accessories for steam and other vapor turbines (sold separately)	2002.. 12	X	X	404 642
		1997.. 17	X	X	360 353
3336110761	Parts and accessories for gas turbines, except aircraft (sold separately)	2002.. 40	X	X	1 210 398
		1997.. 29	X	X	241 553
3336110766	Parts and accessories for wind turbines (sold separately)	2002.. 1	X	X	D
		1997.. 1	X	X	D
3336110776	Turbine generator parts and accessories (sold separately)	2002.. 22	X	X	131 980
		1997.. 18	X	X	D
33361108	Other turbines and turbine generators	2002.. N	X	X	1 521 521
		1997.. N	X	X	506 821
3336110836	Hydraulic turbines (all sizes)	2002.. 8	X	X	D
		1997.. 4	X	X	D
3336110856	Wind turbines	2002.. 2	X	X	D
		1997.. 6	X	X	D
3336110871	Turbine generators	2002.. 7	X	X	D
		1997.. 8	X	X	466 197
33361109	Gas turbines, except aircraft (all sizes)	2002.. N	X	X	D
		1997.. N	X	X	1 739 865
3336110951	Gas turbines, except aircraft (all sizes)	2002.. 28	X	X	D
		1997.. 18	X	X	1 739 865
3336110Y	Turbines, turbine generators, and turbine generator sets (including parts), nsk, total	2002.. N	X	X	96 923
		1997.. N	X	X	82 770
3336110YWW	Turbines, turbine generators, and turbine generator sets (including parts), nsk, for nonadministrative-record establishments	2002.. N	X	X	94 361
		1997.. N	X	X	82 770
3336110YWY	Turbines, turbine generators, and turbine generator sets (including parts), nsk, for administrative-record establishments	2002.. N	X	X	2 562
		1997.. N	X	X	N

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333611	Turbine and turbine generator set units manufacturing		
00900001	Total materials .....2002..	X	3 433 332
	.....1997..	X	2 501 640
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	83 575
	.....1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	9 346
	.....1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	39 837
	.....1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	56 331
	.....1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	87 939
	.....1997..	X	28 254
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	58 758
	.....1997..	X	49 428
332000AC	Metal stampings .....2002..	X	1 578
	.....1997..	X	D
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments) .....2002..	X	75 488
	.....1997..	X	28 802
33200099	Fabricated structural metal products (excluding forgings) .....2002..	X	D
	.....1997..	X	D
33200079	All other fabricated metal products (excluding forgings, castings, pumps, motors, hydrostatic transmissions, cylinders, rotary actuators, filters, valves, and hose and tube fittings) .....2002..	X	202 402
	.....1997..	X	182 209
33211101	Iron and steel forgings .....2002..	X	813 767
	.....1997..	X	406 288
33211201	Nonferrous forgings .....2002..	X	D
	.....1997..	X	D
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	676 260
	.....1997..	X	386 958
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	10 972
	.....1997..	X	3 025
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	28 235
	.....1997..	X	669
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	197 562
	.....1997..	X	85 557
33120016	Steel sheet and strip (including tinplate) .....2002..	X	39 087
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	42 015
	.....1997..	X	37 986
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33631100	Pistons, piston rings, carburetors, and valves (intake and exhaust only) .....2002..	X	D
	.....1997..	X	—
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.) .....2002..	X	D
	.....1997..	X	D
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	D
	.....1997..	X	D
33361815	Injection fuel pumps .....2002..	X	D
	.....1997..	X	N
33361817	Machined engine blocks .....2002..	X	D
	.....1997..	X	N
33299105	Ball bearings (mounted or unmounted) .....2002..	X	430
	.....1997..	X	D
33299103	Roller bearings (mounted or unmounted) .....2002..	X	D
	.....1997..	X	D
33361301	Plain bearings and bushings .....2002..	X	26 770
	.....1997..	X	32 794
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	42 495
	.....1997..	X	D
33361101	Turbines purchased for incorporation into turbine generator sets .....2002..	X	12 417
	.....1997..	X	12 654
33361103	Generators purchased for incorporation into turbine generator sets .....2002..	X	6 080
	.....1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	8 005
	.....1997..	X	N
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	670
	.....1997..	X	D
32622001	Rubber and plastics hose and belting .....2002..	X	D
	.....1997..	X	D
33351503	Cutting tools for machine tools .....2002..	X	15 965
	.....1997..	X	14 245
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	473 860
	.....1997..	X	545 750
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	67 084
	.....1997..	X	71 851

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.